

## Data Sheet

Mixing / Overhead Stirrers



### RW 20 digital

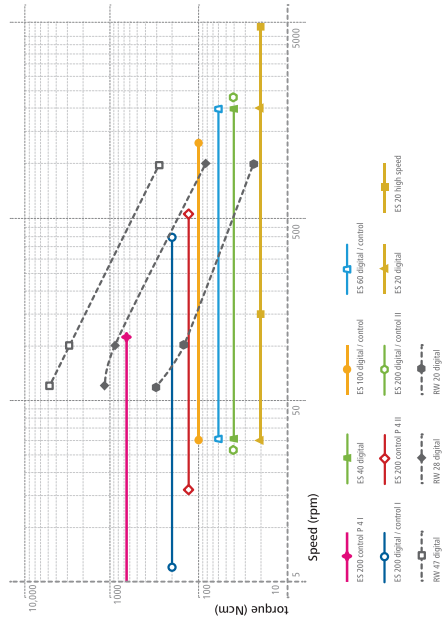
Bringing the future to your laboratory:

- new: With digital display
- new: Robust, slimline, ergonomic design
- new: Technical improvements on the trusted RW 20 series designs
- With constant power-drive
- Two speed ranges for universal use from 60 - 2.000 rpm
- Push-through agitator shafts (only when stationary)

Accessories: R 182 Boss head clamp, R 1826 Plate stand, R 1342 Propeller stirrer, 4-bladed, R 1330 Anchor stirrer, R 301 Stirring shaft protection, RH 3 Strap clamp, R 1381 Propeller stirrer, 3-bladed, R 1311 Turbine stirrer, FK 1 Flexible coupling, R 1389 (PTFE-coated) Propeller stirrer, 3-bladed, R 1827 Plate stand, R 1300 Dissolver stirrer, R 1312 Turbine stirrer, R 1352 Centrifugal stirrer, R 1382 Propeller stirrer, 3-bladed, R 1303 Dissolver stirrer, R 1825 Plate stand

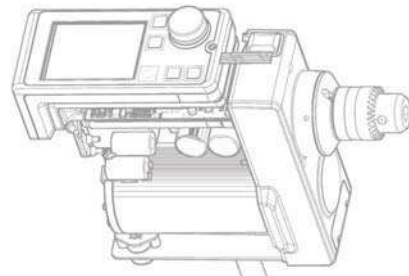
Technical Data	
Stirring quantity max. (H <sub>2</sub> O) [l]	20
Motor rating input [W]	70
Motor rating output [W]	35
Speed display	LED
Speed range [rpm]	60 - 2000
Viscosity max. [mPas]	10000
Output max. at stirring shaft [W]	26
Permissible ON time [%]	100
Torque max. at stirring shaft [Ncm]	150
Torque max. at stirring shaft at 60 1/min (overload) [Ncm]	300
Torque max. at stirring shaft at 100 1/min [Ncm]	150
Torque max. at stirring shaft at 1.000 1/min [Ncm]	24
Speed range I (50 Hz) [rpm]	60 - 500
Speed range II (50 Hz) [rpm]	240 - 2000
Speed range I (60 Hz) [rpm]	72 - 600
Speed range II (60 Hz) [rpm]	288 - 2400
Speed control	stepless
Stirring element fastening	chuck
Temperature display	no
Chuck range min. diameter [mm]	0.5
Chuck range max. diameter [mm]	10
Hollow shaft, inner diameter [mm]	10.5
Hollow shaft (push-through $\checkmark$ when stopped)	yes
Fastening on stand	extension arm
Extension arm diameter [mm]	13
Extension arm length [mm]	160
Torque display	no
Nominal torque [Nm]	1.5
Timer	no
Dimensions (W x H x D) [mm]	88 x 294 x 212
Weight [kg]	3.1
Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	no
USB interface	no
Analog output	no
Voltage [V]	220 - 240 / 100 - 115
Frequency [Hz]	50/60
Power input [W]	72
<b>Ident. No.</b>	<b>0003593000</b>


## Stirring elements | Accessories



The electric overhead stirrer has a constant torque over the entire speed range. They can also be used for short-term overload operations. The electric stirrer is ideal for repetitive procedures as well.


The mechanical overhead stirrer has a high torque at low speed and the torque decreases when the speed increases. The electric stirrer is better for introducing and the speed range is best for introducing mixing of low viscous samples.






**Turbine stirrer**  
This stirrer is used for drawing the material to the surface. It creates a strong axial flow within the vessel. It carries a minimum level of danger of injury when contact is made with vessel. It also creates minimum heat and is suited to medium to high speeds.

Name	R 1311	R 1312	R 1313
Ident. No.	000232000	000233000	000233100
Stirrer Ø3 mm	30	50	70
Shaft Ø3 mm	8	8	10
Shaft length mm	350	350	400
Max. speed rpm	2000	2000	800




**Centrifugal stirrer**  
Two-bladed stirrer whose blades open with increasing speed. Perfect for stirring in round vessels with narrow necks and the effect is identical to high speeds required.

Name	R 1352	R 1355
Ident. No.	000278000	000132700
Stirrer Ø3 mm	60 / 15	100 / 24
Shaft Ø3 mm	8	8
Shaft length mm	300	550
Max. speed rpm	2000	800



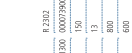
**Paddle stirrer**  
This stirrer creates tangential flow, minimum shearing rate at the edges, minimum deposits on the vessel wall and is very great for high mineral contents in liquids. Ideal for medium to highly viscous fluids. Low speeds required.

Name	R 1375	R 1376	R 2111
Ident. No.	000257000	000258000	000259000
Stirrer Ø3 mm	70	150	150
Shaft Ø3 mm	8	10	13
Shaft length mm	550	550	600
Max. speed rpm	800	800	800



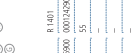
**Anchor stirrer**  
This stirrer creates tangential flow, high shearing rate at the edges, minimum deposits on the vessel wall and is very great for high mineral contents in liquids. Ideal for medium to highly viscous fluids. Low speeds required.

Name	R 1330	R 1331	R 1333
Ident. No.	000223000	000224000	000224100
Stirrer Ø3 mm	45	90	150
Shaft Ø3 mm	8	8	10
Shaft length mm	350	350	550
Max. speed rpm	1000	1000	800




**Propeller stirrer 2-bladed**  
Standard stirring element for drawing the material to the surface. It carries a minimum level of danger of injury when contact is made with vessel. This propeller stirrer is used at medium to high speeds.

Name	R 1342	R 1345	R 2302
Ident. No.	000474000	000475000	000235000
Stirrer Ø3 mm	50	100	150
Shaft Ø3 mm	8	8	13
Shaft length mm	350	540	800
Max. speed rpm	2000	800	800




**Propeller stirrer 3-bladed**  
Flow-efficient design for drawing the material to be mixed from the top and the bottom while creating minimum shearing forces. This propeller stirrer is used at medium to high speeds.

Name	R 1381	R 1382	R 1401	R 1405
Ident. No.	000126000	000285000	000286000	000286800
Stirrer Ø3 mm	45	55	55	45
Shaft Ø3 mm	8	8	8	8
Shaft length mm	300	350	2000	2000
Max. speed rpm	2000	2000	2000	2000




**Propeller stirrer 4-bladed**  
Flow-efficient design for drawing the material to be mixed from the top and the bottom while creating minimum shearing forces. This propeller stirrer is used at medium to high speeds.

Name	R 1385	R 1388	R 1389 (PTFE control)
Ident. No.	000477000	000478000	000234500
Stirrer Ø3 mm	140	140	75
Shaft Ø3 mm	10	10	8
Shaft length mm	550	800	350
Max. speed rpm	800	400	800




**Dissolver stirrer**  
This stirrer provides radial flow for drawing the material to be mixed from the top and the bottom while creating high turbulence. The high turbulence leads to a high shearing rate. Medium to high speeds required.

Name	R 1300	R 1302	R 1402
Ident. No.	000535000	000287000	000243300
Stirrer Ø3 mm	80	100	42
Shaft Ø3 mm	8	10	8
Shaft length mm	350	350	350
Max. speed rpm	2000	1000	2000




**Axial flow stirrer**  
This stirrer creates axial flow for drawing the material to the surface. It carries a minimum level of danger of injury when contact is made with vessel. It also creates minimum heat and is suited to medium to high speeds.

Name	R 1311	R 1312	R 1313
Ident. No.	000232000	000233000	000233100
Stirrer Ø3 mm	30	50	70
Shaft Ø3 mm	8	8	10
Shaft length mm	350	350	400
Max. speed rpm	2000	2000	800




**Axial flow stirrer**  
This stirrer creates axial flow for drawing the material to the surface. It carries a minimum level of danger of injury when contact is made with vessel. It also creates minimum heat and is suited to medium to high speeds.

Name	R 1352	R 1355
Ident. No.	000278000	000132700
Stirrer Ø3 mm	60 / 15	100 / 24
Shaft Ø3 mm	8	8
Shaft length mm	300	550
Max. speed rpm	2000	800



**Tangential flow stirrer**  
This stirrer creates tangential flow, minimum shearing rate at the edges, minimum deposits on the vessel wall and is very great for high mineral contents in liquids. Ideal for medium to highly viscous fluids. Low speeds required.

Name	R 1375	R 1376	R 2111
Ident. No.	000257000	000258000	000259000
Stirrer Ø3 mm	70	150	150
Shaft Ø3 mm	8	10	13
Shaft length mm	550	550	600
Max. speed rpm	800	800	800



**Anchor stirrer**  
This stirrer creates tangential flow, high shearing rate at the edges, minimum deposits on the vessel wall and is very great for high mineral contents in liquids. Ideal for medium to highly viscous fluids. Low speeds required.

Name	R 1330	R 1331	R 1333
Ident. No.	000223000	000224000	000224100
Stirrer Ø3 mm	45	90	150
Shaft Ø3 mm	8	8	10
Shaft length mm	350	350	550
Max. speed rpm	1000	1000	800

\* IFA\* recommendations only

EUROSTAR 20 digital control  
EUROSTAR 40 digital control  
EUROSTAR 60 digital control  
EUROSTAR 100 digital control  
EUROSTAR 200 digital control  
EUROSTAR 200 control F4

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# Mechanical | Accessories

## RH 5 Strap clamp

For securing vessels against walls or for synchronized rotation during stirring, incl. boss head clamp R.270.



Ident. No. 0003159000

2 3

## RH 3 Strap clamp

For securing vessels during stirring.



Ident. No. 0003008600

1

## R 270 Boss head clamp



Ident. No. 0002657800

2 3

## FK 1 Flexible coupling

Required for stirring tasks using glass stirring rods. The flexible coupling compensates for any structural variances.



Ident. No. 0002360000

A

## R 271 Boss head clamp

Specialized clamp with openings for the stands R.2722 and R.2723 as well as extensions with Ø 16 mm.



Ident. No. 0002664000

2 3

## R 182 Boss head clamp



Ident. No. 0002657700

1

**H 62.51 Stainless steel sensor**  
Temperature sensor for working with non-aggressive media.  
Ident. No. 0002735451  
\* Option available only for control units

**H 66.51 Stainless steel sensor glass-coated**  
Temperature sensor for working with media such as acid and alkaline solutions.  
Ident. No. 0002735551  
\* Option available only for control units

**H 70 Extension cable**  
To connect EUROSTAR control with the temperature sensor.  
Ident. No. 0002735600  
\* Option available only for control units




**R 60 keyless chuck**  
Available for EUROSTAR 20 / 40 / 60 / 100 series. It allows you to quickly and easily remove the stirring elements without any tools.  
Ident. No. 0003885500




**H 66.53 Temperature sensor**  
Chemical resistant coated sensor.  
Ident. No. 0004499900  
\* Option available only for control units


**Stirring shaft protection**  
Available for all overhead stirrers for preventing potential injuries at rotating shafts and stirring elements

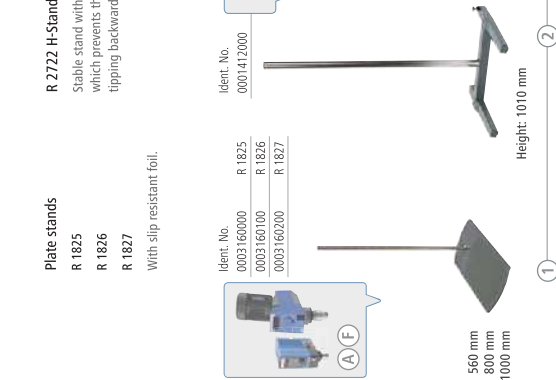
**IKA+**  
**COMING SOON:**  
More stand options for optimal stability!






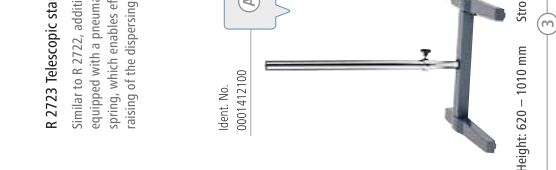
**R 4765 Floor stand**  
Electrically adjustable telescopic floor stand, specially designed for RW 47 digital and T 65 basic/digital  
Ident. No. 0004035000  
Height: 1014 – 1588 mm






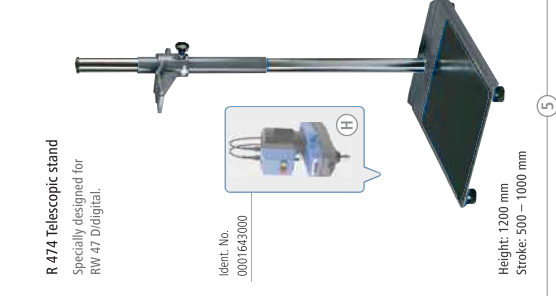
**R 2722 H-stand**  
Stable stand with H-shaped base which prevents the stand from tipping backwards.  
Ident. No. 0001412000  
Height: 1010 mm






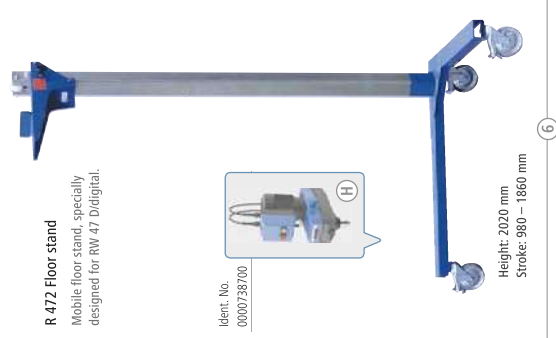
**R 2723 Telescopic stand**  
Similar to R.2722, additionally equipped with a pneumatic spring, which enables effortless raising of the dispersing unit.  
Ident. No. 0001412100  
Height: 620 – 1010 mm    Stroke: 390 mm





**R 474 Telescopic stand**  
Specially designed for RW 47 Digital.  
Ident. No. 0001643000  
Height: 1200 mm  
Stroke: 500 – 1000 mm





**R 472 Floor stand**  
Mobile floor stand, specially designed for RW 47 Digital.  
Ident. No. 0000738700  
Height: 2020 mm  
Stroke: 980 – 1860 mm